



US005681932A

[11] Patent Number: 5,681,932

[45] Date of Patent: Oct. 28, 1997

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[57]

ABSTRACT

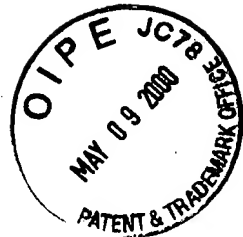
SA The present invention is a method of using the BK enhances in tandem with a eukaryotic promoter to promote transcription of DNA that encodes a useful substance. The method of the present invention requires the presence of the E1A gene product for maximum expression of the useful substance. The present invention also comprises a number of useful expression vectors that comprise the BK enhancer in tandem with the adenovirus 2 late promoter positioned to drive expression of a variety of proteins, such as protein C, chloramphenicol acetyltransferase, and tissue plasminogen activator. The present invention further comprises a method for increasing the activity of the BK enhancer involving placement of the BK enhancer immediately upstream of the eukaryotic promoter used in tandem with the BK enhancer to drive expression of a useful substance. Furthermore, the present invention also comprises a method for coamplification of genes in primate cells. Additionally, the invention further comprises the recombinant human protein C molecule produced in 293 cells which comprises novel glycosylation patterns.

(4 Claims, 42 Drawing Sheets)

EA

United States Patent [19]

Grinnell



[54] **METHOD OF USING EUKARYOTIC
EXPRESSION VECTORS COMPRISING THE
BK VIRUS ENHANCER**

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[21] Appl. No.: **458,372**

[22] Filed: **Jun. 2, 1995**

Related U.S. Application Data

[62] Division of Ser. No. 208,930, Mar. 9, 1994, which is a continuation of Ser. No. 368,700, Jun. 20, 1989, abandoned, Continuation-in-part of Ser. No. 250,001, Sep. 27, 1988, abandoned, Continuation-in-part of Ser. No. 129,028, Dec. 4, 1987, abandoned, Continuation-in-part of Ser. No. 849,999, Apr. 9, 1986, abandoned.

[51] Int. Cl.⁶ **C07K 14/745**

[52] U.S. Cl. **530/381; 435/240.2**

[58] Field of Search **435/69.1, 240.2,
435/172.3, 320.1, 226; 530/381**

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